

ABSTRACT

A rotary electric machine is composed of an armature core, an armature winding, a rotor core disposed opposite said armature core, a rotary magnetic-flux source for supplying first magnetic flux to the rotor core, a frame for supporting the armature core and the rotor core and a stationary magnetic flux source, fixed to the frame, for supplying second magnetic flux to the rotor core in a direction to supplement the first magnetic flux.